

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property
Organization
International Bureau**



(43) International Publication Date
1 July 2004 (01.07.2004)

PCT

(10) International Publication Number
WO 2004/056025 A3

- (51) **International Patent Classification⁷:** **H04B 10/00,**
10/12

(21) **International Application Number:**
PCT/IL2003/001082

(22) **International Filing Date:**
16 December 2003 (16.12.2003)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
60/433,617 16 December 2002 (16.12.2002) US

(71) **Applicant (for all designated States except US):** PAS-
SAVE LTD. [IL/IL]; 7 Rival Street, 67778 Tel Aviv (IL).

(72) **Inventor; and**

(75) **Inventor/Applicant (for US only):** KHERMOSH, Lior
[IL/IL]; 11 Hama'avak St., 53523 Givatayim (IL).

(74) **Agent:** FRIEDMAN, Mark, M.; DR. MARK FRIED-
MAN LTD., 7 Haomanim Street, 67897 Tel Aviv (IL).

(81) **Designated States (national):** AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,
CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,
MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

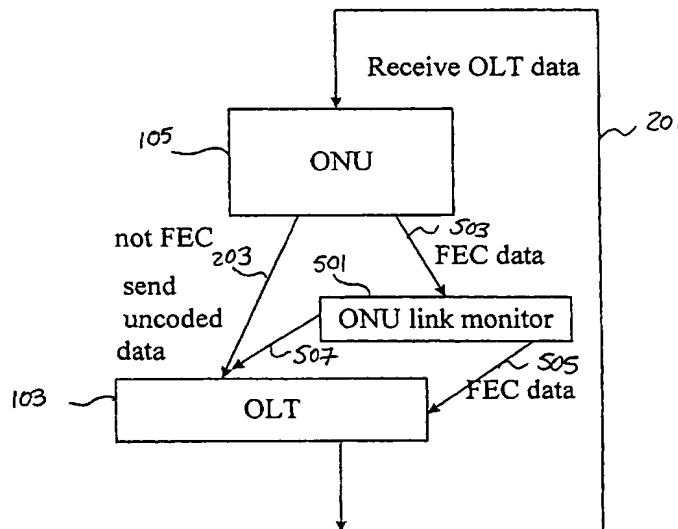
(84) **Designated States (regional):** ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) **Date of publication of the international search report:**
25 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF ETHERNET FRAME FORWARD ERROR CORRECTION INITIALIZATION AND AUTO-NEGOTIATION



(57) Abstract: A method of managing forward error correction (FEC) initialization and auto-negotiation in ethernet passive optical networks includes receiving FEC data from an optical network unit (ONU 105), and the optical line terminal (OLT 103) responds to the ONU with FEC data. Upon receiving data not forward error corrected from an ONU. The OLT responds with data not coded for FEC (203). Similarly, upon receiving forward error corrected data from the OLT, the ONU responds with forward error corrected data (503); and upon receiving data not forward error corrected from the OLT, the ONU responds with data not forward error corrected (203). The communications quality from the ONU is monitored (501), if the communications quality is not sufficient, the OLT transmits forward error corrected data to the ONU; otherwise, the OLT transmits non- FEC data to the ONU.

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INTERNATIONAL SEARCH REPORT

International application No.,

PCT/IL03/01082

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 10/00, 10/12

US CL : 398/140, 151, 154

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 398/140, 151, 154

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,721,742 A (OKAJIMA et al) 24 FEBRUARY 1998 (24.02.1998) FIG 1-3	1-6
Y	US 6,477,669 B1 (AGARWAL et al) 02 NOVEMBER 2002 (02.11.2002) FIG 1A, 5	1-6
Y	US 3,893,072 (D'ANTONIO et al) 01 JULY 1975 (01.07.1975) FIG ABSTRACT	1-6
Y	US 6,314,535 B1 (MORRIS et al) 06 NOVEMBER 2001 (06.11.2001) FIG 4A,4B	1-6
Y	US 5,699,365 A (KLAYMAN et al) 16 DECEMBER 1997 (16.12.1997) ABSTRACT	1-6

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☐ See patent family annex.

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"&"

document member of the same patent family

Date of the actual completion of the international search

30 April 2004 (30.04.2004)

Date of mailing of the international search report

10 SEP 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Jason Chan

Telephone No. (703)305-3900

R. Eugenio Lopez